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A B S T R A C T

A control apparatus for controlling a thermal recycling plant is provided, the apparatus able to save energy while keeping the thermal recycling plant in normal state. According to an embodiment, a thermal recycling plant system includes a cooler cools coolant recycling thermal from coolant circulating in a load apparatus and which consumes energy while operating and a controller controls the cooler. The controller includes a calculator and a monitor. The calculator calculates an optimal temperature optimal for the coolant by optimization calculation for minimizing energy consumption under given conditions. The monitor monitors an operating state of the load apparatus to determine whether an abnormality exists in the load apparatus. The monitor controls the cooler to cool the coolant to a temperature lower than the optimal temperature calculated, on determining that an abnormality exists in the load apparatus.